IN THE ENITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Ranjan RAY et al.

Serial No.: 10/624,497

Filed: July 23, 2003

For: CASTINGS OF METALLIC ALLOYS WITH IMPROVED SURFACE QUALITY, STRUCTURAL INTEGRITY AND MECHANICAL IN REFRACTORY METALS AND REFRACTORY METAL CARBIDES COATED GRAPHITE MOLDS UNDER VACUUM

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to Rules 56 and 98, Applicants hereby call the attention of the Patent Office to the references listed on the attached Form PTO 1449.

Applicants present these references so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see <u>Beckman Instruments, Inc. v. Chemtronics, Inc.</u>, 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rule 104. Applicants respectfully request that these references be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

Date:∠

APV/pgw

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APPLICANT Ranjan RAY et al.

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U.S. PATENT DOCUMENTS

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EXAMINER INITIAL			DOCU	MENT NU	JMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2	9	7	7	2	2	2	03/61	Bieber			
	3	2	4	1	2	0	0	03/66	Lirones			
	3	2	4	3	7	3	3	03/66	Hosman			
	3	2	6	5	5	7	4	08/66	Scolari			
	3	2	6	6	1	0	6	08/66	Lirones			
	3	2	9	6	6	6	6	01/67	Lirones			
	3	2	5	7	6	9	2	06/66	Operhall			
	3	3	2	1	0	0	5	05/67	Lirones			
	3	3	8	9	7	4.	3	06/68	Morozov et al.			
	3	4	8	5	2	8	8	12/69	Zusman et al.			11
	3	5	1	9	5	0	3	07/70	Moore et al.			
	3	5	4	7	6	7	6	12/70	Bokros et al.			
	3	9	0	0	5	4	0	08/75	Robba et al.			
	4	2	0	9	3	4	8	06/80	Duhl et al.			
	4	2	2	6	9	0	0_	10/80	Carlson et al.			
	4	4	5	3	9	8	5	06/84	Gessinger et al.			
	4	5	7	4	0	1	5	03/86	Genereux et al.			
	4	5	7	9	6	0_	2	01/86	Paulonis et al.			
	4	6	0	8	1	9	2	08/86	Su			100
	4	6	1	2	0	6	2	09/86	Nazmy et al.			
	4	6	2	7	9	4	5	12/86	Winkelbauer et al.			
	4	7	1	9	0	8	0	01/88	Duhl et al.	-		
	4	7	6	9	0	8_	7	09/88	Genereux et al.			
	5	5	2	5	2	7_	6	06/96	Okuyama et al.			
	5	6	3	0	4_	6	5	05/97	Feagin			
	5	7	0_	5	1	3	9	01/98	Stiller et al.	<u></u>		
EXAMINER						DATE CONSIDERED						

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL			DOCU	MENT NU	IMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Williams	 3 2 5 6 5 7 4								Lirones	0.2.00	0000120	ii iu i io i iu ii
	3	4	9	2	1	9	7	01/70	Olstowski et al.			
	3	8	0	2	9	0	2	04/74	Turner, Jr. et al.			
	5	4	3	9	7	4	4	08/95	Claar et al.			
	6	1	1	3	9	8	2	09/00	Claar et al.			
	6	2	5	0	3	6	6	06/01	Choudhury et al.			
	 6	3	6	0	8	0	9	03/02	Cornie et al.			
	 6	4	0	8	9	2	9	06/02	Choudhury et al.			
	6	5	7	2	8	1	5	06/03	Ju et la.			
	 6	6	3	4	4	1	3	10/03	Ray et al.			
	6	7	0	5	3	8	5	03/04	Ray et al.			
	 6	7	5	5	2	3	9	06/04	Ray et al.			
	6	7	7	6	2	1	4	08/04	Ray et al.			

FOREIGN PATENT DOCUMENTS

				MENT N				DATE	COUNTRY	CLASS	SUBCLASS	TRANSLA	TION
												YES	NO
6	0	0	4	0	6	4	4	03/85	JP			Abstract Only	
5	5	1	4	9	7	4	7	11/80	JP			Abstract Only	
	1	3	0	6	6	4	1	04/87	SU				Х

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

US Published Patent Application No. 2004/0003913 A1, (Ser. No. 10/143,920), Ray et al., filed May 14, 2002, published January 8, 2004.

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U.S. PATENT DOCUMENTS

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EXAMINER INITIAL				DOCU	MENT NU	JMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5	1	6	3	4	9	8	11/92	Kantner et al.			
		3	6	8	3	9	9	6	08/72	Dunlop			
		3	5	6	7	8	9	6	03/71	Chang			
		4	0	0	5	1	6	3	01/77	Bokros			
		4	7	6	1	2	7	2	08/88	Hucke			
		5	9	2	4	4	7	0	07/99	Costilla-Vela et al.			
		5	9	6	4	0	9	1	10/99	Fukui et al.			
		4	1	2	9	4	6	2	12/78	Korenko			
		5	1	7	6	7	6	2	01/93	Berczik			
		5	4	8	9	4	1	1	02/96	Jha et al.			
		5	0	2	6	5	2	1	06/91	Kajimura et al.			
		5	6	6	5	2	6	2	09/97	Hajaligol et al.			
-		5	2	2	6	9	4	6	07/93	Diehm et al.			
		4	6	7	0	2	0	1	06/87	Montgomery et al.			
<u> </u>		4	2	2	6	9	0	0	10/80	Carlson et al.			
		3	7	1	8	7	2	0	02/73	Lambdin, Jr. et al.			
		3	7	8	1	1	5	8	12/73	Leghorn			
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES	NO	

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